

# Practice Problems for Unit 6 Lesson 3 and 4A Quiz

1. What is the price per ounce of a 24-ounce box of cereal priced at \$3.60?

$$\begin{array}{r} .15 \\ 24 \overline{) 3.60} \\ \underline{24} \phantom{0} \\ 120 \\ \underline{120} \\ 0 \end{array}$$

\$0.15 per ounce

2. The price of one type of cheese is \$2.60 a pound. What is the cost of 3 pounds of cheese?

~~11/11~~

$$\begin{array}{r} 2.6 \\ \times 3 \\ \hline 7.8 \end{array}$$

\$7.80

$$\begin{array}{r|l} \$ & 2.6 \\ \hline \text{lbs} & 3 \\ \hline & 7.8 \end{array}$$

3. Arnold drove 390 miles from LA to Sacramento in 6 hours. If he continued at that rate, how long would it take him to drive 715 miles? Answer in hours.

|    |             |     |     |
|----|-------------|-----|-----|
| 65 | +6<br>miles | 390 | 715 |
| 1  | hours       | 6   | 11  |

÷ 6

11 hours

~~25/1340~~

$$\begin{array}{r} 65 \\ 6 \overline{) 390} \\ \underline{36} \phantom{0} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} 65 \\ 9 \overline{) 585} \\ \underline{54} \phantom{0} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

4. Tell whether each is proportional; How do you know?

a.  $\frac{3}{4} = \frac{9}{12}$

yes  
scale factor  
is 3

b.  $\frac{13}{15} = \frac{4}{5}$

no  
 $15 \div 3 = 5$   
but  $13 \div 3 \neq 4$

c.  $\frac{8}{12} = \frac{14}{21} = \frac{2}{3}$

yes  
both can  
be simplified  
to  $\frac{2}{3}$

5. Solve each proportion. Remember to simplify first if possible.

a.  $\frac{3}{5} = \frac{15}{x}$

$x = 25$

b.  $\frac{36}{H} = \frac{4}{20} = \frac{1}{5}$

$\frac{36}{180} = \frac{1}{5}$   
 $H = 180$

c.  $\frac{77}{91} = \frac{x}{26} = \frac{11}{13}$

$x = 22$

6. You estimate that you can do 12 math problems in 45 minutes. How long should it take you to do 20 math problems?

$$\frac{\text{probs}}{\text{min}} \quad \frac{12}{45} = \frac{20}{x} = \frac{4}{15} = \frac{20}{75}$$

75 minutes

$= 45 \text{ ft} =$

7. 13 ft = 156 in

15 yd = 540 in

4 miles = 21,120 feet

8. 3 lbs = 48 oz

48 oz = 3 lbs